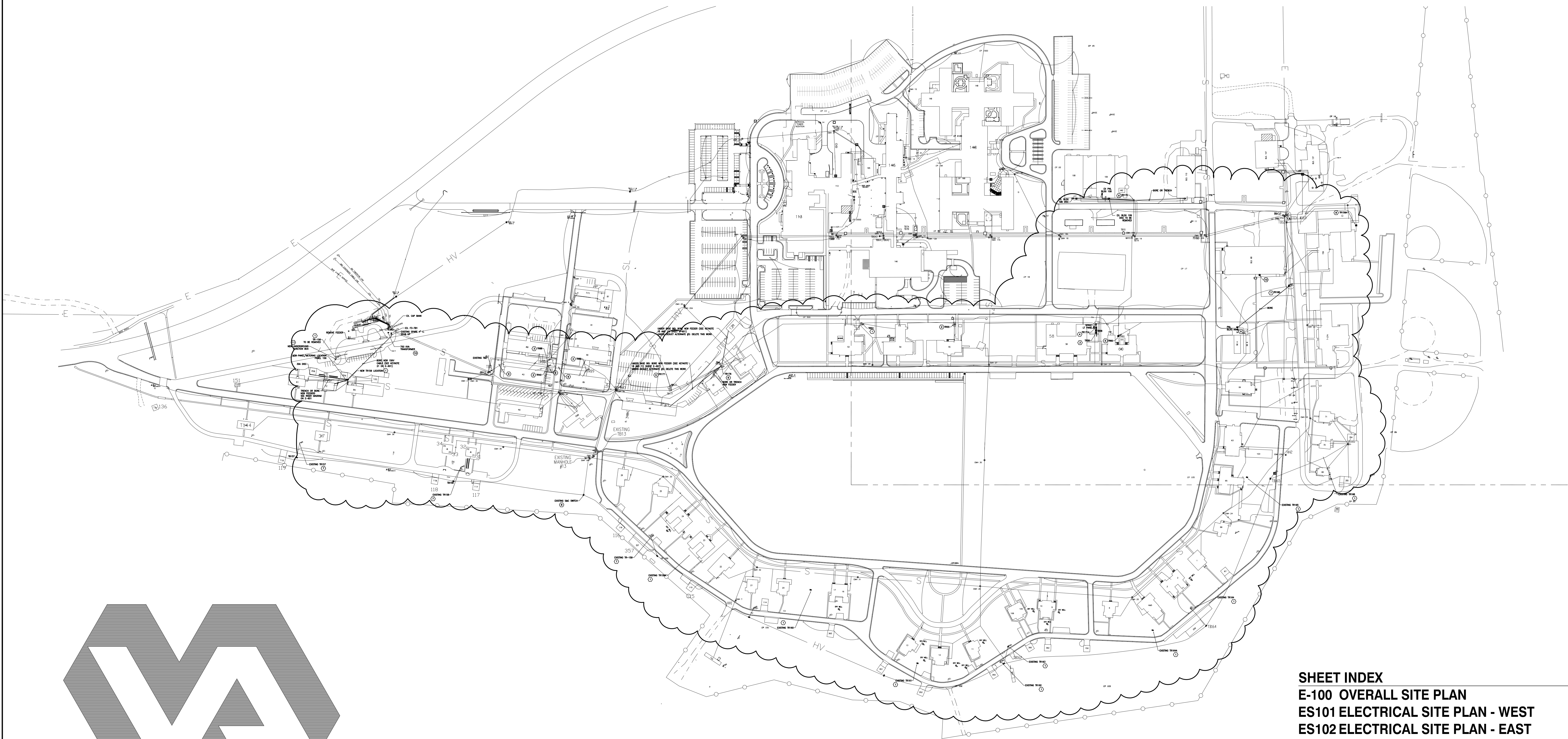


UPGRADE PRIMARY VOLTAGE , PHASE 2

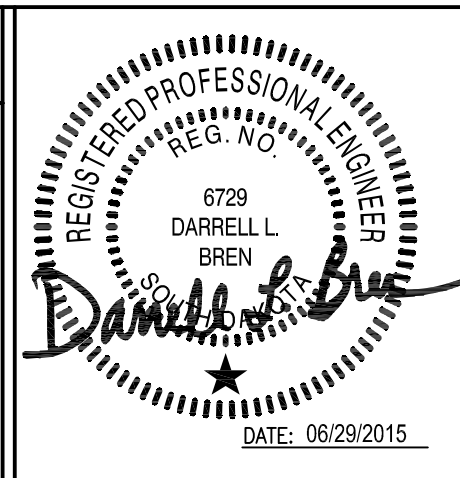


PROJECT NO. 568-14-101

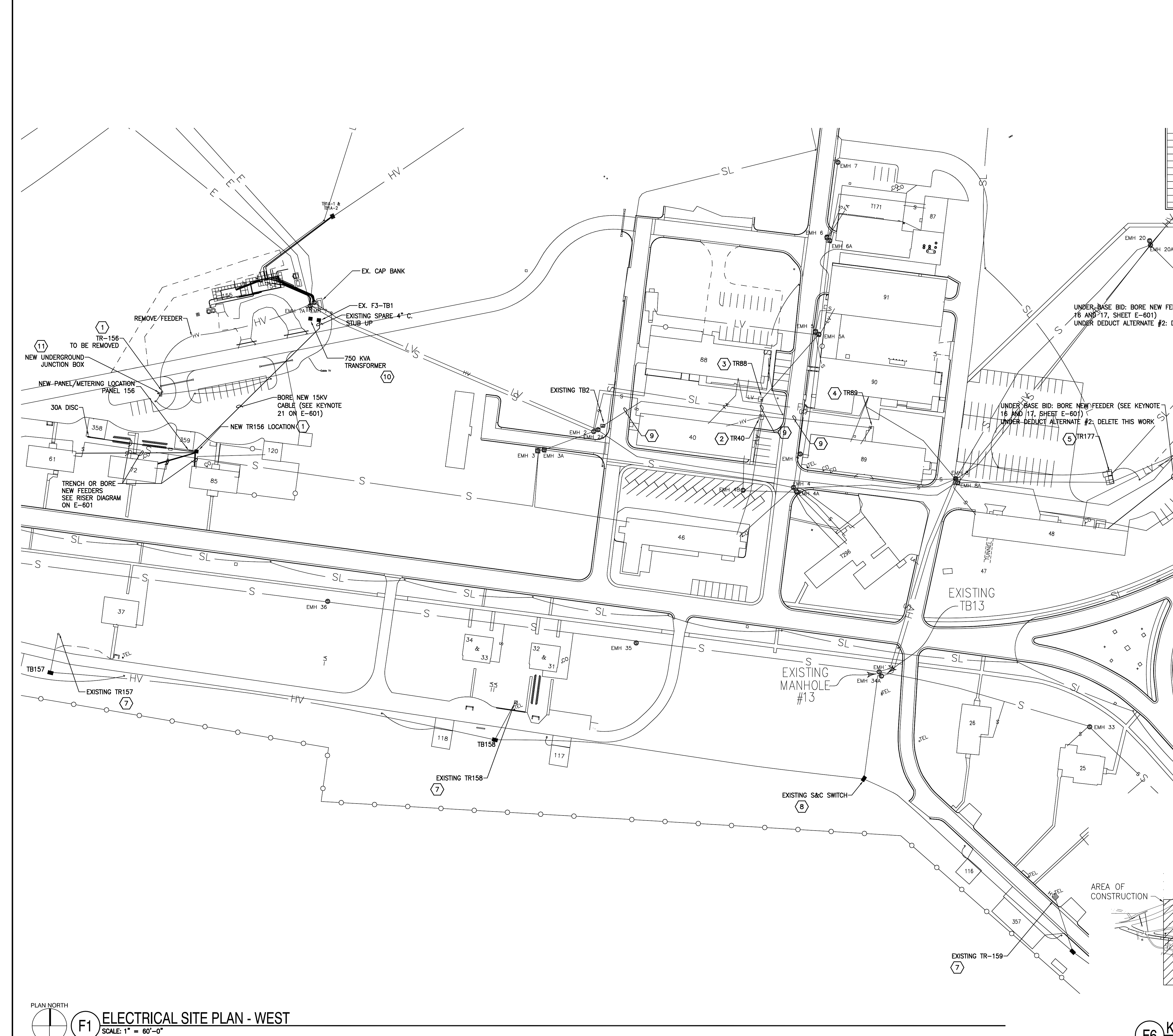


V.A. MEDICAL CENTER FT. MEADE, S.D.

SHEET INDEX	
E-100	OVERALL SITE PLAN
ES101	ELECTRICAL SITE PLAN - WEST
ES102	ELECTRICAL SITE PLAN - EAST
ES103	ELECTRICAL SITE PLAN - SOUTH
E-501	ELECTRICAL DETAILS
E-502	ELECTRICAL BUILDING PLANS
E-601	POWER RISER DIAGRAM
E-602	ELECTRICAL SCHEDULES

PLAN NORTH
F1 OVERALL SITE PLAN
SCALE: 1" = 150'-0"

		CONSULTANTS:		ARCHITECT/ENGINEERS:	Drawing Title		Project Title		Project Number		Office of Construction and Facilities Management
					OVERALL SITE PLAN		Primary Voltage Upgrade, Phase 2		568-14-101		
				 <div>TSP, Inc. 1112 N. West Ave. Sioux Falls, SD 57104 phone: (605) 336-1160 fax: (605) 336-7926 www.teamtsp.com TSP PROJECT #04151352</div>	Approved Project Director		Location		Building Number		
					---		Ft. Meade, South Dakota		Campus		
							Date	Checked	Drawn	E-100	
							06/29/2015	DLB	CRV	Dwg. 1 of 8	
Revisions:	Date										



EXISTING FEEDERS

1

EXISTING FEEDER 1

2

EXISTING FEEDER 2

3

EXISTING FEEDER 3

SHEET GENERAL NOTES

A.

ALL LOW VOLTAGE FEEDERS SHALL BE TRENCHED OR BORED (CONTRACTOR'S CHOICE), EXCEPT UNDER ROADWAYS (DIRECT BORE ONLY UNDER PAVED AREAS). REFER TO SECONDARY TRENCH DETAIL 58/E-501. MULTIPLE LOW-VOLTAGE FEEDERS MAY BE COMBINED IN A COMMON TRENCH WHEREVER PRACTICAL. CONTRACTOR TO PROVIDE AS-BUILT LOCATIONS OF FEEDERS. PROVIDE LONG SWEEP CONDUIT ELBOWS AT TRANSFORMER LOCATIONS AND STUB-UPS TO BUILDINGS. PROVIDE DIRECT-BURIED SECONDARY FEEDERS THROUGHOUT UNLESS NOTED OTHERWISE.

B.

REFER TO SHEETS E-601 FOR PHASING SEQUENCE.

C.

ALL WORK REQUIRING OUTAGES SHALL BE CONDUCTED DURING OFF HOURS AND AT TIMES APPROVED BY THE VA.

D.

ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL DOWNTIMES WITH THE VA.

E.

ELECTRICAL CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES BEFORE TRENCHING AND BORING.

F.

ELECTRICAL CONTRACTOR SHALL PROVIDE SOD FOR AREAS WHERE EXISTING GRADE IS DISTURBED AND A LAWN SPRINKLER SYSTEM IS IN PLACE. ELECTRICAL CONTRACTOR SHALL PROVIDE A FAST GRASS SEED MIX BLEND FOR AREAS WHERE EXISTING GRADE IS DISTURBED AND NO LAWN SPRINKLER SYSTEM IS IN PLACE, SEED MIX INGREDIENTS BE FURNISHED BY THE VA, SEE SPECIFICATION.

SHEET KEYNOTES

1.

REPLACE TR-156 TRANSFORMER. REMOVE AND DISPOSE OF EXISTING PAD MOUNTED 37.5KVA, 4160Y-120/240 VOLT, 1-PH, 3-W TRANSFORMER. PROVIDE A NEW PAD MOUNTED 50KVA, 12470Y-208Y/120 VOLT, 1-PH, 3-W, RADIAL FEED, ONAN TRANSFORMER. REMOVE PRIMARY (2/0 AWG, COPPER, 1-1/2", 15KV, EPR) AND SECONDARY CONDUCTORS FROM EXISTING TRANSFORMER. PROVIDE NEW PRIMARY AND SECONDARY TO NEW TRANSFORMER. CONTRACTOR SHALL VERIFY CABLE LENGTHS ON SITE.

PROVIDE LIS (LOAD BREAK SWITCH) INTERNAL TO TRANSFORMER MENTIONED ABOVE, (GE BREAKMASTER LIS - 600A FRAME, 40KA INTERRUPTING RATING AND GE 9F60 EJO-1, 15.5KV, E-RATED, 20A, 50KA INTERRUPTING RATING) OR EQUIVALENT. FINAL FUSE SIZINGS SHALL BE PER COORDINATION STUDY.

PROVIDE A MINIMUM 2 WEEKS NOTICE IN WRITING TO OWNER OF SHUTDOWN OF BUILDING.

2.

REPLACE TR-40 TRANSFORMER. REMOVE AND DISPOSE OF EXISTING PAD MOUNTED 150KVA, 4160Y-208Y/120 VOLT, 3-PH, 4-W TRANSFORMER. PROVIDE A NEW PAD MOUNTED 150KVA, 12470Y-208Y/120 VOLT, 3-PH, 4-W, LOOP FEED, WITH 4-POSITION SWITCH, ONAN TRANSFORMER. PROVIDE NEW PRIMARY (2/0 AWG, COPPER, 3-1/2", 15KV, EPR). RECONNECT SECONDARY CONDUCTORS FROM EXISTING TRANSFORMER TO NEW TRANSFORMER. CONTRACTOR SHALL VERIFY CABLE LENGTHS/HEIGHTS TO EXISTING TRANSFORMER TERMINATIONS AND ORDER NEW TRANSFORMER WITH SAME DIMENSIONS SO EXISTING CABLEING IS REUSED (OTHERWISE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NEW CABLEING FROM PREVIOUS TERMINATION POINTS). SECONDARY CONDUCTORS ARE SHORT.

PROVIDE LIS (LOAD BREAK SWITCH) INTERNAL TO TRANSFORMER MENTIONED ABOVE, (GE BREAKMASTER LIS - 600A FRAME, 40KA INTERRUPTING RATING AND GE 9F60 EJO-1, 15.5KV, E-RATED, 20A, 50KA INTERRUPTING RATING) OR EQUIVALENT. FINAL FUSE SIZINGS SHALL BE PER COORDINATION STUDY.

PROVIDE A MINIMUM 2 WEEKS NOTICE IN WRITING TO OWNER OF SHUTDOWN OF BUILDING. THIS WORK, ALONG WITH REPLACEMENT OF TR-88 AND TR-89 SHALL BE DONE ON A SATURDAY.

3.

REPLACE TR-88 TRANSFORMER. REMOVE AND DISPOSE OF EXISTING PAD MOUNTED 150KVA, 4160Y-208Y/120 VOLT, 3-PH, 4-W TRANSFORMER. PROVIDE A NEW PAD MOUNTED 150KVA, 12470Y-208Y/120 VOLT, 3-PH, 4-W, LOOP FEED WITH 4-POSITION SWITCH, ONAN TRANSFORMER. PROVIDE NEW PRIMARY (2/0 AWG, COPPER, 3-1/2", 15KV, EPR). RECONNECT SECONDARY CONDUCTORS FROM EXISTING TRANSFORMER TO NEW TRANSFORMER. CONTRACTOR SHALL VERIFY CABLE LENGTHS/HEIGHTS TO EXISTING TRANSFORMER TERMINATIONS AND ORDER NEW TRANSFORMER WITH SAME DIMENSIONS SO EXISTING CABLEING IS REUSED (OTHERWISE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NEW CABLEING FROM PREVIOUS TERMINATION POINTS).

PROVIDE LIS (LOAD BREAK SWITCH) INTERNAL TO TRANSFORMER MENTIONED ABOVE, (GE BREAKMASTER LIS - 600A FRAME, 40KA INTERRUPTING RATING AND GE 9F60 EJO-1, 15.5KV, E-RATED, 20A, 50KA INTERRUPTING RATING) OR EQUIVALENT. FINAL FUSE SIZINGS SHALL BE PER COORDINATION STUDY.

PROVIDE A MINIMUM 2 WEEKS NOTICE IN WRITING TO OWNER OF SHUTDOWN OF BUILDING.

4.

REPLACE TR-89 TRANSFORMER. REMOVE AND DISPOSE OF EXISTING PAD MOUNTED 150KVA, 4160Y-208Y/120 VOLT, 3-PH, 4-W TRANSFORMER. PROVIDE A NEW PAD MOUNTED 150KVA, 12470Y-208Y/120 VOLT, 3-PH, 4-W, LOOP FEED WITH 4-POSITION SWITCH, ONAN TRANSFORMER. PROVIDE NEW PRIMARY (2/0 AWG, COPPER, 3-1/2", 15KV, EPR). RECONNECT SECONDARY CONDUCTORS FROM EXISTING TRANSFORMER TO NEW TRANSFORMER. CONTRACTOR SHALL VERIFY CABLE LENGTHS/HEIGHTS TO EXISTING TRANSFORMER TERMINATIONS AND ORDER NEW TRANSFORMER WITH SAME DIMENSIONS SO EXISTING CABLEING IS REUSED (OTHERWISE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NEW CABLEING FROM PREVIOUS TERMINATION POINTS).

PROVIDE LIS (LOAD BREAK SWITCH) INTERNAL TO TRANSFORMER MENTIONED ABOVE, (GE BREAKMASTER LIS - 600A FRAME, 40KA INTERRUPTING RATING AND GE 9F60 EJO-1, 15.5KV, E-RATED, 20A, 50KA INTERRUPTING RATING) OR EQUIVALENT. FINAL FUSE SIZINGS SHALL BE PER COORDINATION STUDY.

PROVIDE A MINIMUM 2 WEEKS NOTICE IN WRITING TO OWNER OF SHUTDOWN OF BUILDING.

5.

REPLACE TR-177 TRANSFORMER. REMOVE AND DISPOSE OF EXISTING PAD MOUNTED 25KVA, 4160Y-480/277 VOLT, 1-PH, 3-W TRANSFORMER. PROVIDE A NEW PAD MOUNTED 25KVA, 12470Y-480/277 VOLT, 1-PH, 3-W, ONAN TRANSFORMER. DISCONNECT PRIMARY (2/0 AWG, COPPER, 1-1/2", 15KV, EPR) AND SECONDARY CONDUCTORS FROM EXISTING TRANSFORMER AND RECONNECT TO NEW TRANSFORMER. CONTRACTOR SHALL VERIFY CABLE LENGTHS/HEIGHTS TO EXISTING TRANSFORMER TERMINATIONS AND ORDER NEW TRANSFORMER WITH SAME DIMENSIONS SO EXISTING CABLEING IS REUSED (OTHERWISE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NEW CABLEING FROM PREVIOUS TERMINATION POINTS).

PROVIDE LIS (LOAD BREAK SWITCH) INTERNAL TO TRANSFORMER MENTIONED ABOVE, (GE BREAKMASTER LIS - 600A FRAME, 40KA INTERRUPTING RATING AND GE 9F60 EJO-1, 15.5KV, E-RATED, 20A, 50KA INTERRUPTING RATING) OR EQUIVALENT. FINAL FUSE SIZINGS SHALL BE PER COORDINATION STUDY.

PROVIDE A MINIMUM 2 WEEKS NOTICE IN WRITING TO OWNER OF SHUTDOWN OF BUILDING.

6.

REPLACE TR-176 TRANSFORMER. REMOVE AND DISPOSE OF EXISTING PAD MOUNTED 100KVA, 4160Y-240/120 VOLT, 1-PH, 3-W TRANSFORMER. PROVIDE A NEW PAD MOUNTED 100KVA, 12470Y-240/120 VOLT, 1-PH, 3-W, RADIAL FEED, ONAN TRANSFORMER. PROVIDE NEW PRIMARY (2/0 AWG, COPPER, 1-1/2", 15KV, EPR). RECONNECT SECONDARY CONDUCTORS FROM EXISTING TRANSFORMER TO NEW TRANSFORMER. CONTRACTOR SHALL VERIFY CABLE LENGTHS/HEIGHTS TO EXISTING TRANSFORMER TERMINATIONS AND ORDER NEW TRANSFORMER WITH SAME DIMENSIONS SO EXISTING CABLEING IS REUSED (OTHERWISE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NEW CABLEING FROM PREVIOUS TERMINATION POINTS).

PROVIDE LIS (LOAD BREAK SWITCH) INTERNAL TO TRANSFORMER MENTIONED ABOVE, (GE BREAKMASTER LIS - 600A FRAME, 40KA INTERRUPTING RATING AND GE 9F60 EJO-1, 15.5KV, E-RATED, 20A, 50KA INTERRUPTING RATING) OR EQUIVALENT. FINAL FUSE SIZINGS SHALL BE PER COORDINATION STUDY.

PROVIDE A MINIMUM 2 WEEKS NOTICE IN WRITING TO OWNER OF SHUTDOWN OF BUILDING.

7.

EXISTING DUAL VOLTAGE TRANSFORMERS. RE-TERMINATE ELBOWS/CONDUCTORS TO 12.47 KV TERMINALS. SEE RISER DIAGRAM SHEET E-601 FOR MORE INFORMATION.

8.

CHANGE/RE-FUSE EXISTING S&C SWITCH FOR NEW VOLTAGE.

9.

PROVIDE NEW 15KV CABLES, THREE #2/0 CU, AND ONE #2/0 CU BARE GROUND IN EXISTING 4" CONDUIT. SEE KEYNOTES 12 AND 13 ON E-601.

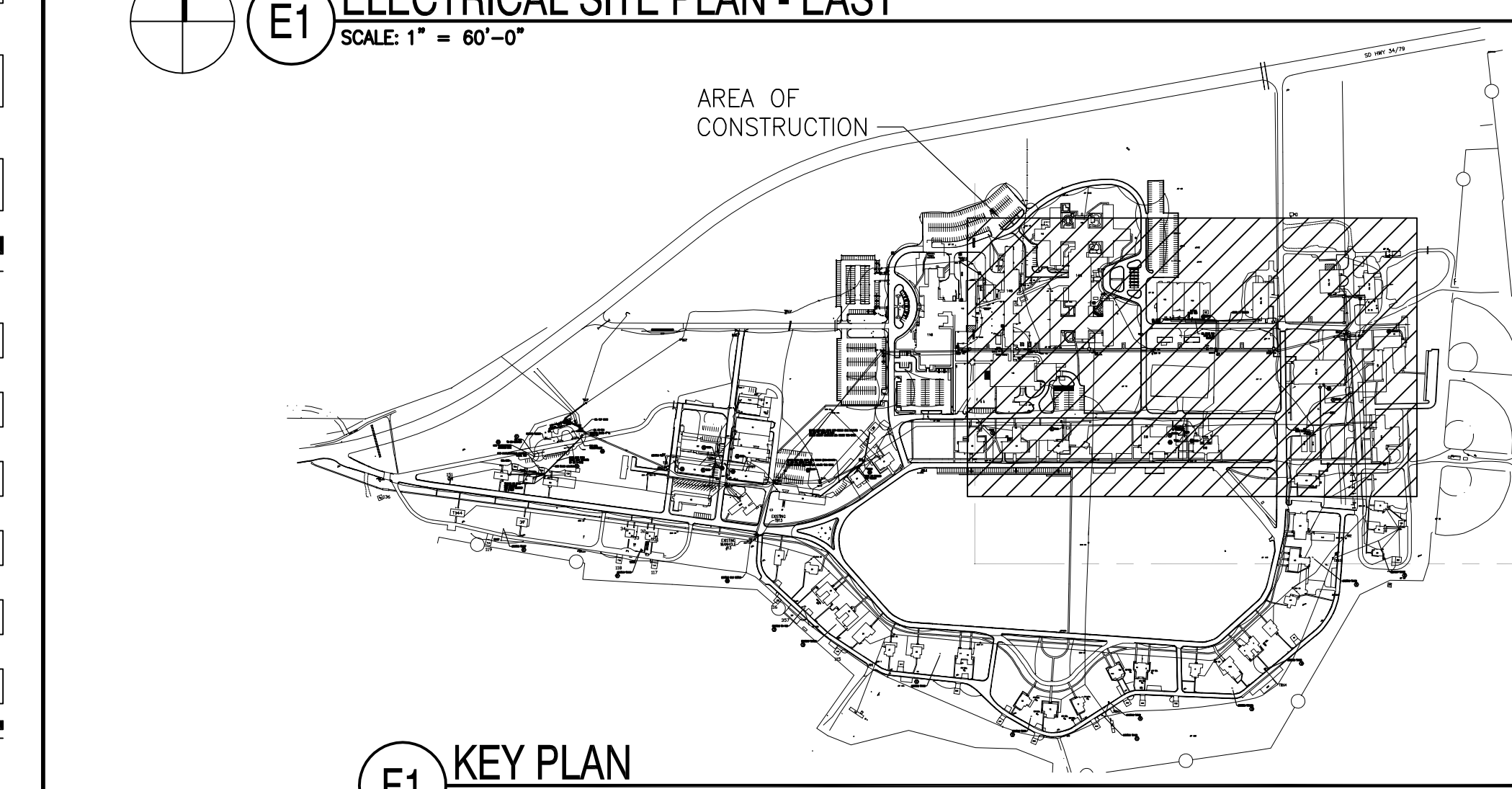
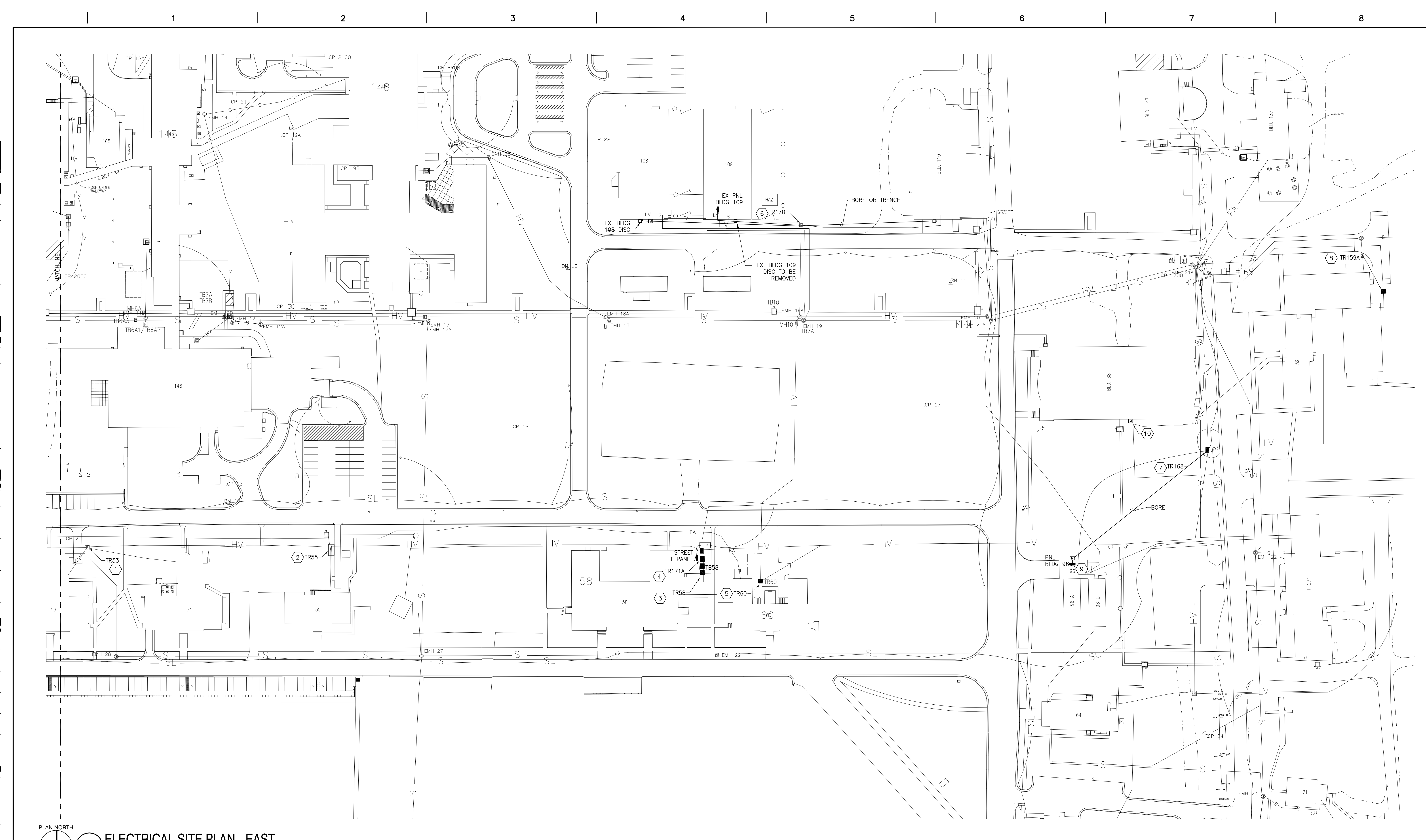
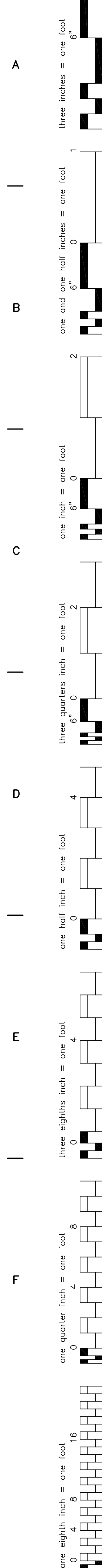
10.

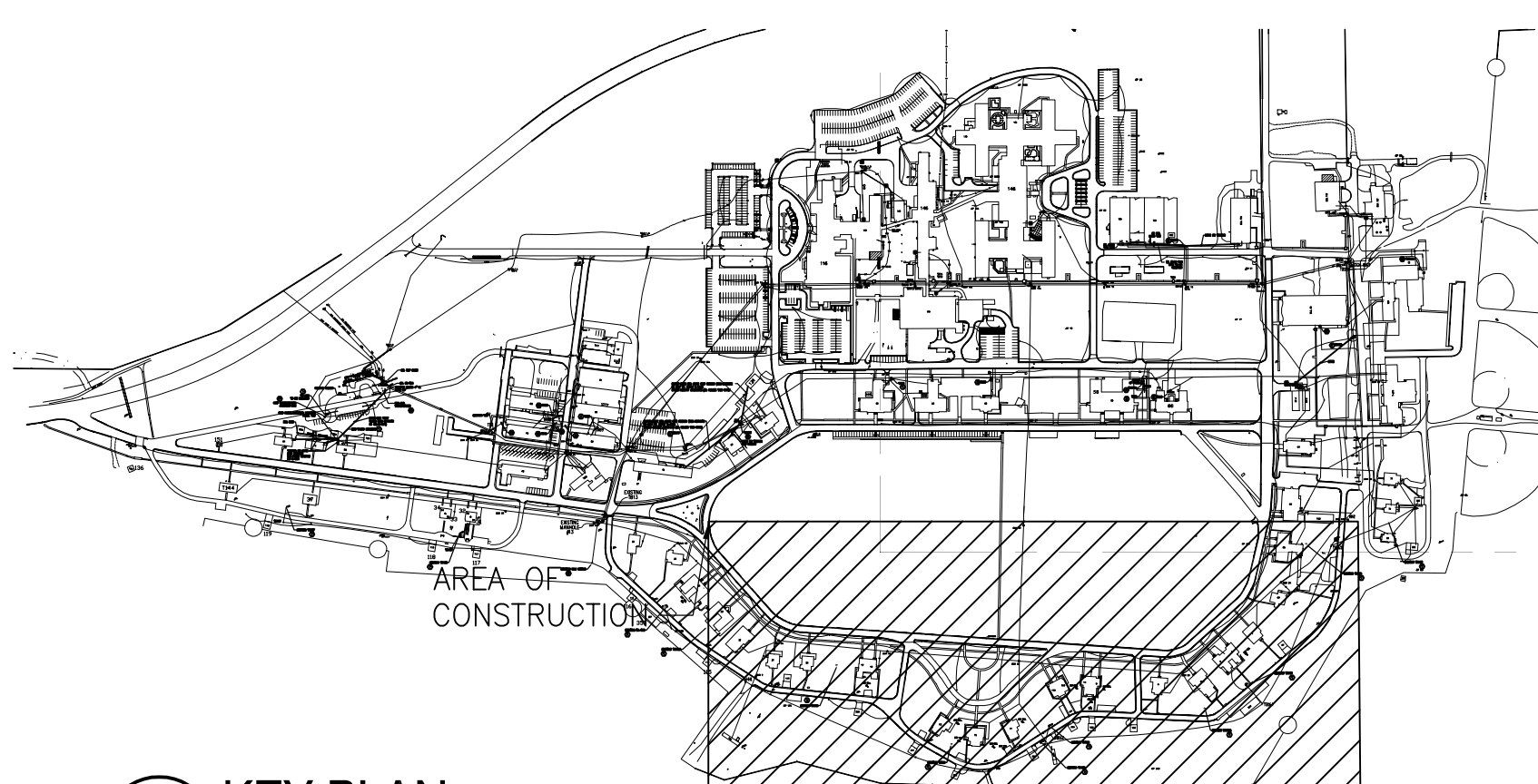
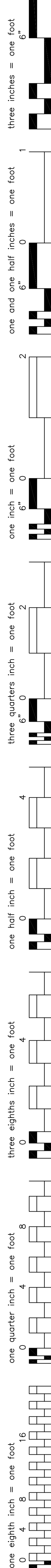
TRANSFORMER REMOVED TOWARD END OF PROJECT. ALSO SEE KEYNOTE 31 ON E-601.

11.



IN-GRADE JUNCTION BOX TO BACKFEED EXISTING STREET LIGHTS FROM PANEL 156. ALSO SEE KEYNOTE 5 ON E-601.

[illegible]

[illegible]

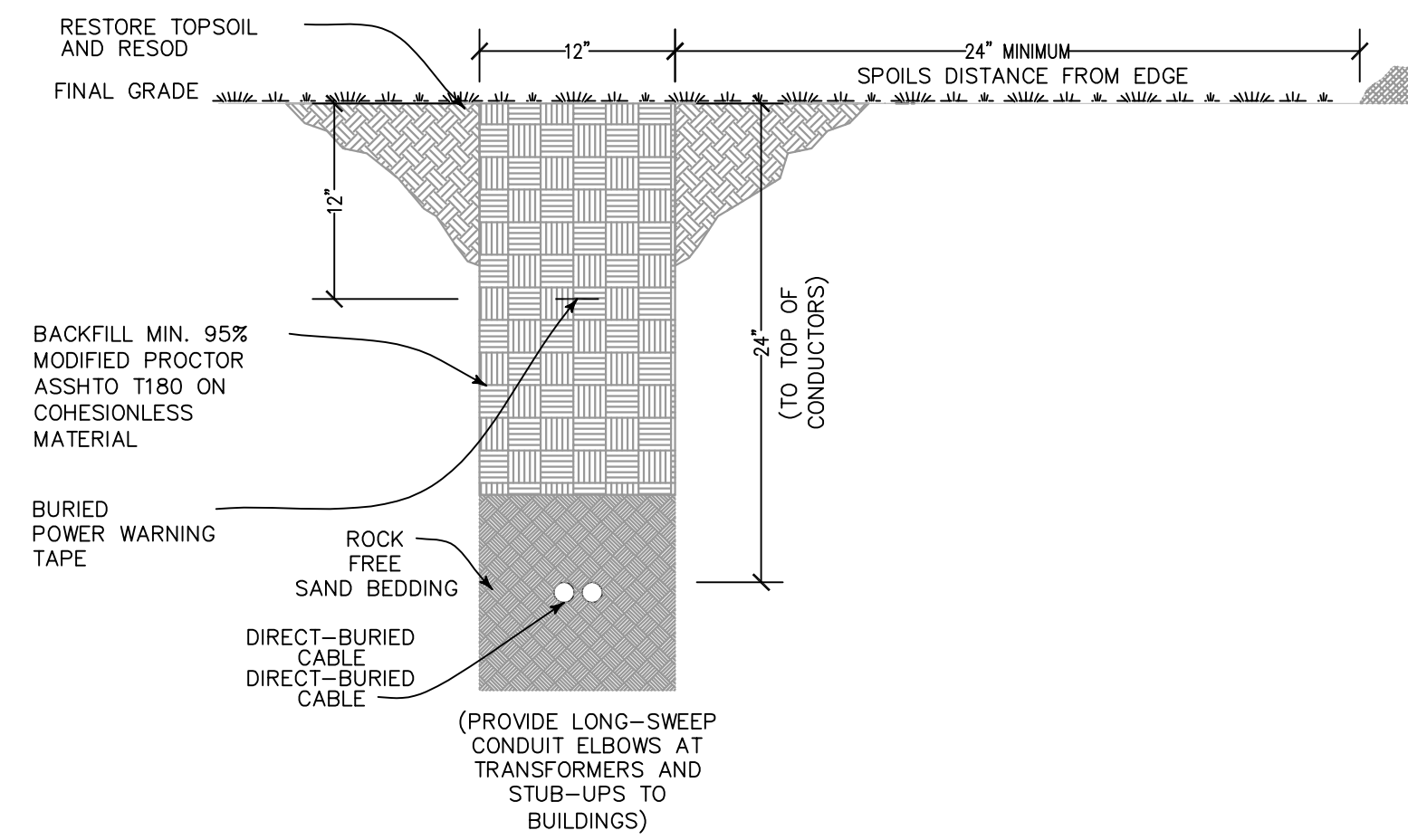


PLAN NORTH

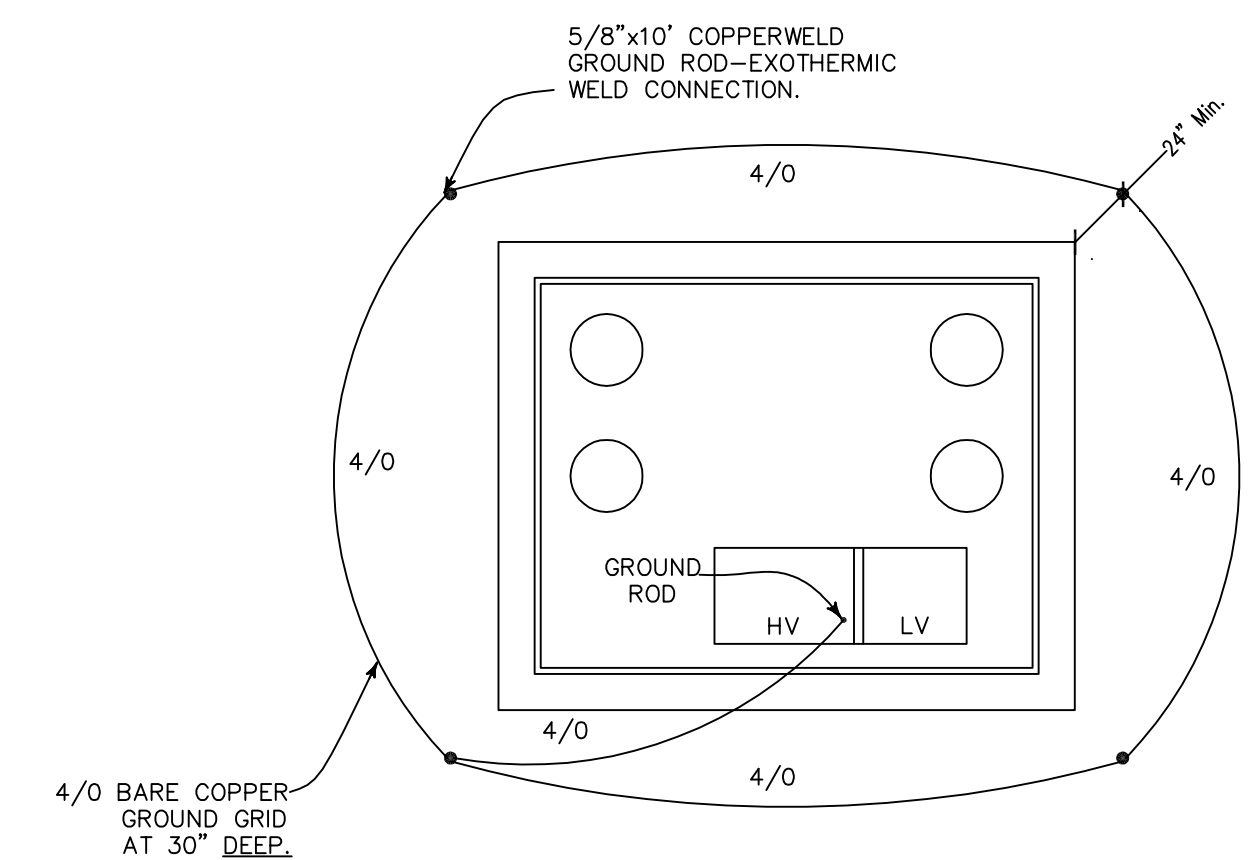
  **ELECTRICAL SITE PLAN - SOUTH**

SCALE: 1" = 60'-0"

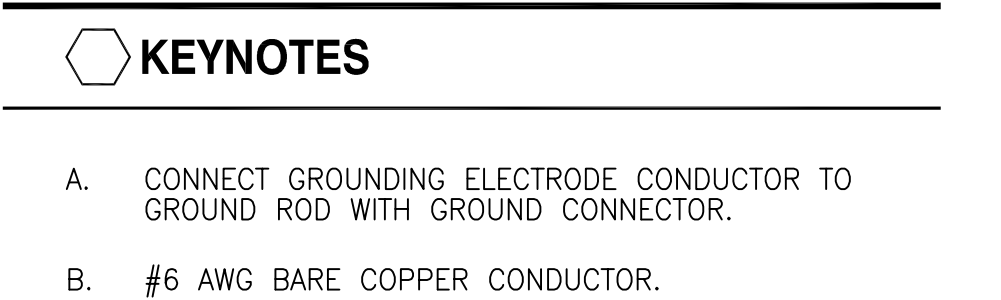
VA FORM 08-6231




3B TRANSFORMER WITH METERING AND/OR PANEL PAD DETAIL
SCALE: NONE

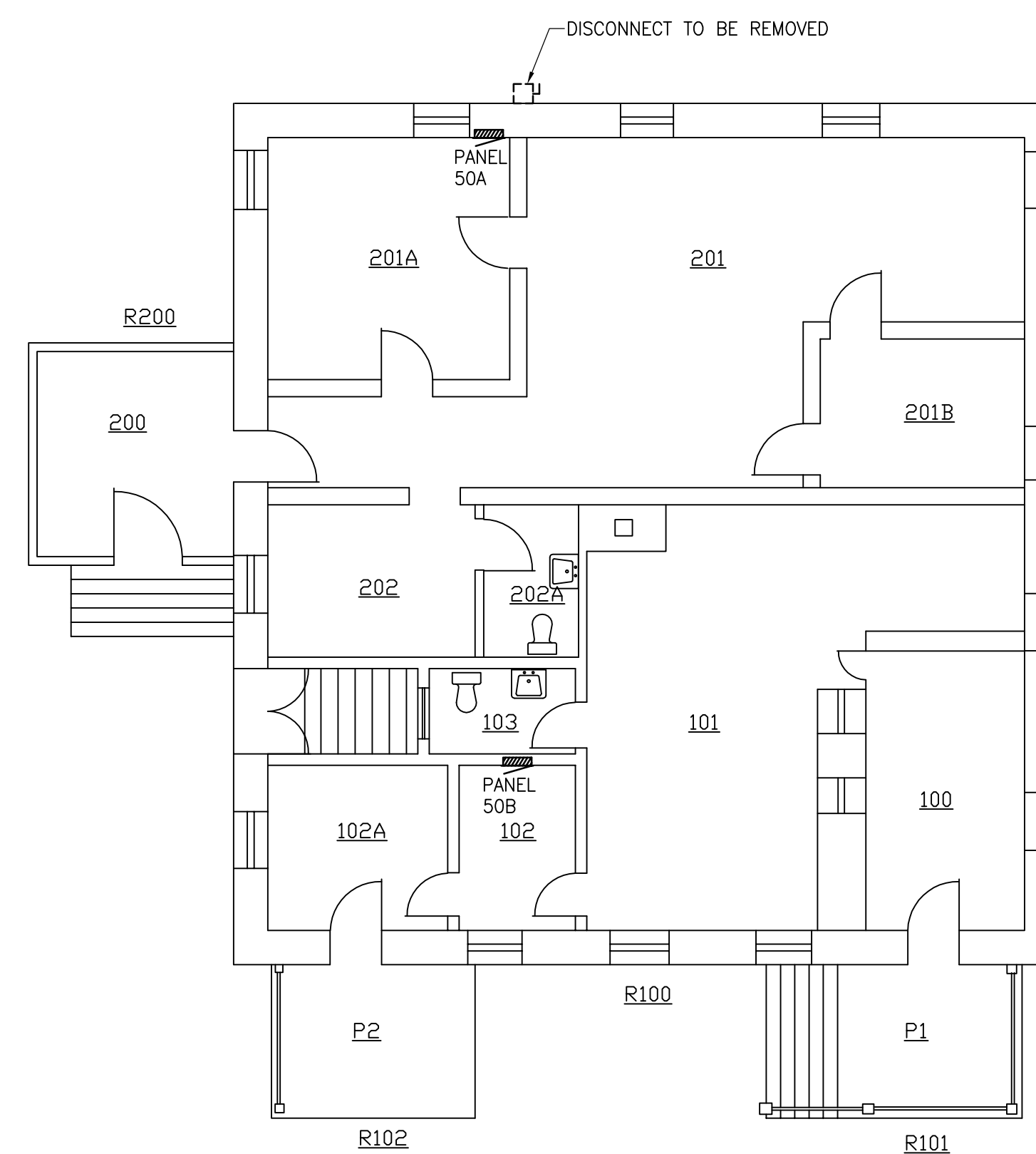


8D TRANSFORMER GROUNDING DETAIL
SCALE: NONE



Office of
Construction
and Facilities
Management

 Department of
Veterans Affairs



FIRST FLOOR BUILDING #50

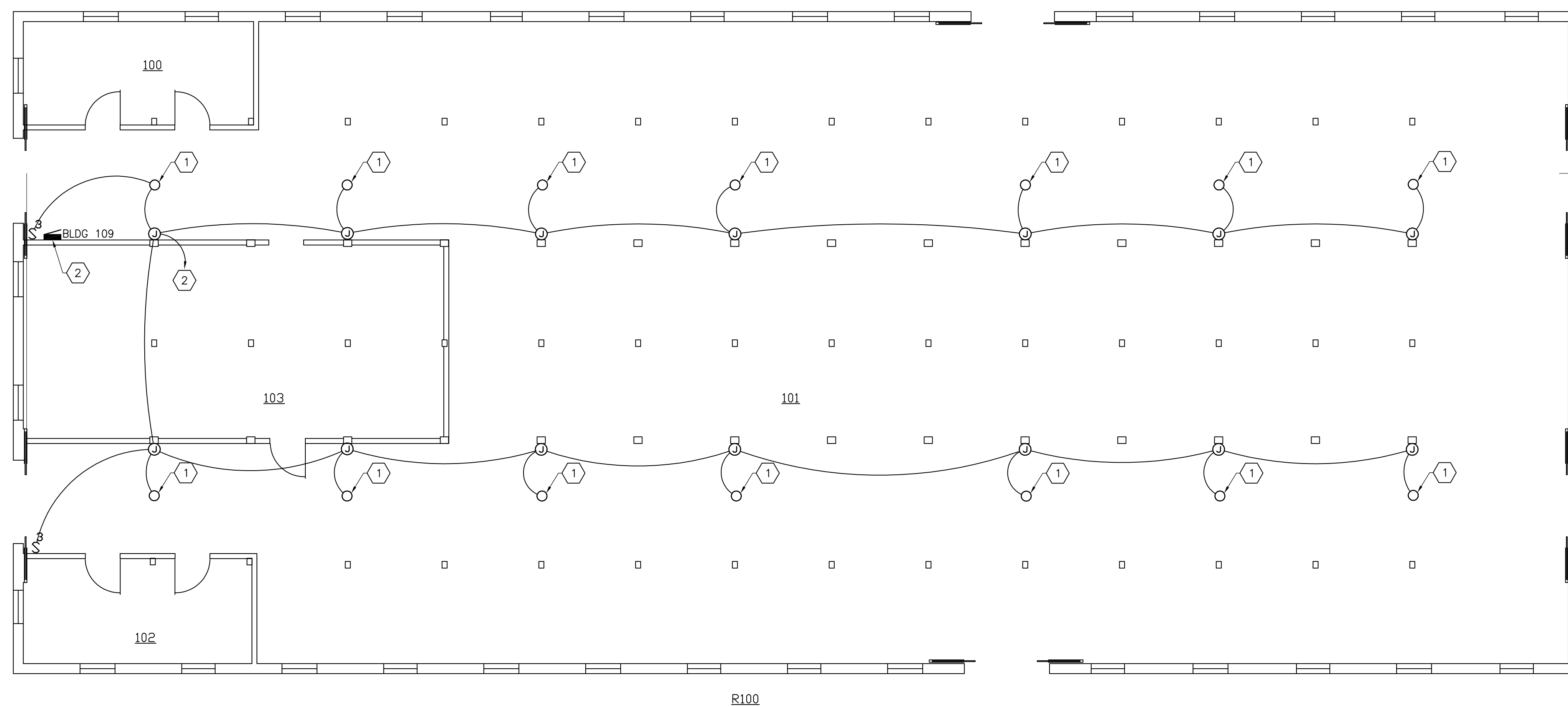
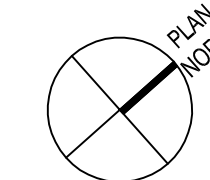
SCALE: $1/8" = 1'-0"$

- ## SHEET KEYNOTES

1. REMOVE EXISTING LIGHT FIXTURE AND WIRING. PROVIDE FIXTURE TYPE RAB LIGHTING VXL26DG OR APPROVED EQUAL.
2. PROVIDE NEW 20A/1P BREAKER IN EXISTING PANEL BLDG 109.

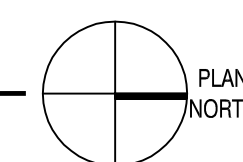
C5 BUILDING 50 LAYOUT
SCALE: 1/8" = 1'-0"

SCALE: $1/8" = 1'-0"$



F1 BUILDING 109 LAYOUT
SCALE: 1/8" = 1'-0"

SCALE: $1/8" = 1'-0"$

[illegible]

A
B
C
D
E
F
L

three inches = one foot
one and one half inches = one foot
one inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one eighth inch = one foot

PANEL TAG: PNL 156									
MOUNTING: SURFACE, NEMA 3R									
FEEDER: SEE RISER									
PANEL TYPE: LIGHTING & APPLIANCE									
VOLTAGE: 120/240 VAC, 1-PHASE, 3-WIRE									
MAINS: LUG [] C.B. [X] AMPS: 100									
FEED THRU LUG []									
MIN A.I.C.: 10,000 (A)									
CKT	ITEM OR AREA SERVED	O/C PROT	DIST KVA	P	O/C KVA	PROT	ITEM OR AREA SERVED	CKT	
1	STREET LIGHTING	201	0.0	A	0.0	201	GARAGE 358 LTG	2	
3	STREET LIGHTING	151	0.0	C	0.0	201	GARAGE 359 LTG	4	
5	SPARE	201	0.0	A	0.0	201	GARAGE 359 LTG	6	
7	SPARE	201	0.0	C	0.0	201	GARAGE 359 RECEPT	8	
9	SPARE	201	0.0	A	0.0			10	
11	SPARE		0.0	C	0.0			12	
13	SPACE		0.0	A	0.0			14	
15	SPACE		0.0	C	0.0			16	
17	SPACE		0.0	A	0.0			18	
TOTAL CONNECTED LOAD (KVA)			0.0						
TOTAL DEMAND LOAD (KVA)			0.0						
FEEDER AMPERES DEMAND			0.0						

PANEL TAG: PNL 176									
MOUNTING: SURFACE, NEMA 3R									
FEEDER: SEE RISER									
PANEL TYPE: LIGHTING & APPLIANCE									
VOLTAGE: 120/240 VAC, 1-PHASE, 3-WIRE									
MAINS: LUG [] C.B. [X] AMPS: 225									
FEED THRU LUG []									
MIN A.I.C.: 22,000 (A)									
CKT	ITEM OR AREA SERVED	O/C PROT	DIST KVA	P	O/C KVA	PROT	ITEM OR AREA SERVED	CKT	
1	GARAGE 121	30/2	0.0	A	0.0	50/2	BLDG 48	2	
3			0.0	C	0.0			4	
5	SPACE		0.0	A	0.0			6	
7	SPACE		0.0	C	0.0			8	
9	SPACE		0.0	A	0.0			10	
11	SPACE		0.0	C	0.0			12	
13	SPACE		0.0	A	0.0			14	
15	SPACE		0.0	C	0.0			16	
17	SPACE		0.0	A	0.0			18	
19	SPACE		0.0	C	0.0			20	
21	SPACE		0.0	A	0.0			22	
23	SPACE		0.0	C	0.0			24	
25	SPACE		0.0	A	0.0			26	
27	SPACE		0.0	C	0.0			28	
29	SPACE		0.0	A	0.0	200/2	PANEL 50A, NOTE 1	30	
TOTAL CONNECTED LOAD (KVA)			0.0						
TOTAL DEMAND LOAD (KVA)			0.0						
FEEDER AMPERES DEMAND			0.0						
NOTES: 1. CHANGE BREAKER TO 125A IN DEDUCT ALTERNATE #2.									

PANEL TAG: PNL 50A									
MOUNTING: FLUSH									
FEEDER: SEE RISER									
PANEL TYPE: LIGHTING & APPLIANCE									
VOLTAGE: 120/240 VAC, 1-PHASE, 3-WIRE									
MAINS: LUG [] C.B. [X] AMPS: 200A - NOTE 1.									
FEED THRU LUG []									
MIN A.I.C.: 10,000 (A)									
CKT	ITEM OR AREA SERVED	O/C PROT	DIST KVA	P	O/C KVA	PROT	ITEM OR AREA SERVED	CKT	
1	EXISTING	30/2	0.0	A	0.0	20/2	EXISTING	2	
3			0.0	C	0.0			4	
5	EXISTING	15/1	0.0	A	0.0	20/1	SPARE	6	
7	EXISTING	15/1	0.0	C	0.0	20/1	SPARE	8	
9	EXISTING	15/1	0.0	A	0.0	20/1	SPARE	10	
11	EXISTING	15/1	0.0	C	0.0			12	
13	EXISTING	15/1	0.0	A	0.0			14	
15	EXISTING	15/1	0.0	C	0.0			16	
17	SPACE		0.0	A	0.0			18	
19	SPACE		0.0	C	0.0			20	
21	SPACE		0.0	A	0.0			22	
23	SPACE		0.0	C	0.0			24	
25	SPACE		0.0	A	0.0			26	
27	SPACE		0.0	C	0.0	50/2	PANEL 50B	28	
29	SPACE		0.0	A	0.0			30	
TOTAL CONNECTED LOAD (KVA)			0.0						
TOTAL DEMAND LOAD (KVA)			0.0						
FEEDER AMPERES DEMAND			0.0						
NOTES: 1. PANEL BREAKER TO 125A IN DEDUCT ALTERNATE #2.									

PANEL TAG: PNL 50B									
MOUNTING: FLUSH									
FEEDER: SEE RISER									
PANEL TYPE: LIGHTING & APPLIANCE									
VOLTAGE: 120/240 VAC, 1-PHASE, 3-WIRE									
MAINS: LUG [] C.B. [X] AMPS: 50									
FEED THRU LUG []									
MIN A.I.C.: 10,000 (A)									
CKT	ITEM OR AREA SERVED	O/C PROT	DIST KVA	P	O/C KVA	PROT	ITEM OR AREA SERVED	CKT	
1	EXISTING	20/1	0.0	A	0.0	20/1	SPARE	2	
3	EXISTING	20/1	0.0	C	0.0	20/1	SPARE	4	
5	EXISTING	20/1	0.0	A	0.0	20/1	SPARE	6	
7	EXISTING	20/1	0.0	C	0.0			8	
9	SPACE		0.0	A	0.0			10	
11	SPACE		0.0	C	0.0			12	
13	SPACE		0.0	A	0.0			14	
15	SPACE		0.0	C	0.0			16	
17	SPACE		0.0	A	0.0			18	
19	SPACE		0.0	C	0.0			20	
TOTAL CONNECTED LOAD (KVA)			0.0						
TOTAL DEMAND LOAD (KVA)			0.0						
FEEDER AMPERES DEMAND			0.0						
NOTE: DEDUCT ALTERNATE #2 ELIMINATES PANEL.									

CIRCUIT SCHEDULE			
MARK (AMPACITY)	SERVICE CONDUCTORS	WIRE- (W/NEUTRAL) PHIN-GND-C	3-WIRE (NO NEUTRAL) PHIN-GND-C
15	12-3/4"	12-12-3/4"	12-12-3/4"
20	12-3/4"	12-12-3/4"	12-12-3/4"
25	10-3/4"	10-10-3/4"	10-10-3/4"
30	10-3/4"	10-10-3/4"	10-10-3/4"
35	8-1"	8-10-1"	8-10-3/4"
40	8-1"	8-10-1"	8-10-3/4"
45	6-1 1/4"	6-10-1 1/4"	6-10-1"
50	6-1 1/4"	6-10-1 1/4"	6-10-1"
60	6-1 1/4"	6-10-1 1/4"	6-10-1"
70	4-1 1/2"	4-8-1 1/2"	4-8-1 1/4"
80	3-1 1/2"	3-8-1 1/2"	3-8-1 1/2"
90	3-1 1/2"	3-8-1 1/2"	3-8-1 1/2"
100	2-1 1/2"	2-8-1 1/2"	2-8-1 1/2"
110	2-1 1/2"	2-8-1 1/2"	2-8-1 1/2"
125	1-2"	1-6-2"	1-6-1 1/2"
150	10-2"	10-6-2"	10-6-2"
175	20-2"	20-6-2"	20-6-2"
200	30-2 1/2"	30-6-2 1/2"	30-6-2"
225	40-2 1/2"	40-6-2 1/2"	40-6-2 1/2"
250	250 KCMIL-3"	250 KCMIL-4-3"	250 KCMIL-4-2 1/2"
300	350 KCMIL-3"	350 KCMIL-4-3"	350 KCMIL-4-3"
350	500 KCMIL-3 1/2"	500 KCMIL-3-3 1/2"	500 KCMIL-3-3"
400	600 KCMIL-4"	600 KCMIL-3-4"	600 KCMIL-3-3 1/2"
400	(2) 30-2 1/2"	(2) 30-3-2 1/2"	(2) 30-3-2"
450	(2) 40-2 1/2"	(2) 40-3-2 1/2"	(2) 40-3-2 1/2"
500	(2) 250 KCMIL-3"	(2) 250 KCMIL-3-3"	(2) 250 KCMIL-3-2 1/2"
600	(2) 350 KCMIL-3"	(2) 350 KCMIL-3-3"	(2) 350 KCMIL-3-3"

- MISCELLANEOUS NOTES:
- ALL CIRCUITS (BRANCH, FEEDERS, AND SERVICE) SHALL BE SIZED PER THE OVERCURRENT DEVICE AND THIS CIRCUIT SCHEDULE UNLESS OTHERWISE NOTED.
 - THE ABOVE CHART IS THE MINIMUM CONDUCTOR AND CONDUIT SIZE FOR THE OVERCURRENT DEVICE. CHART DOES NOT INCLUDE REQUIRED VOLTAGE DROP.
 - CIRCUITS SHALL BE 4 WIRE (4W) UNLESS DENOTED WITH "3W" (3 WIRE) OR "K" (K RATED), OR IS THE SERVICE ENTRANCE FROM THE UTILITY.
 - ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR.
 - ALL CONDUCTORS SHALL BE COPPER.
 - THE NEUTRAL SHALL BE THE SAME SIZE AS THE PHASE CONDUCTORS UNLESS 3-WIRE, OR NOTED OTHERWISE.
 - THE NUMBER OF PARALLEL SETS IS INDICATED IN PARENTHESIS.
 - SINGLE PHASE CIRCUITS SHALL BE SIZED PER THE OVERCURRENT DEVICE UNLESS OTHERWISE NOTED. SIZE THE CONDUCTORS AND CONDUIT PER THE 4-WIRE COLUMN OF THIS CHART BUT REDUCE THE AMOUNT OF PHASE CONDUCTORS AS REQUIRED.

PANEL TAG: BLDG 96							VOLTAGE: 208Y/120 VAC, 3-PHASE, 4-WIRE						
MOUNTING: SURFACE							MAINS: LUG [X] C.B. [] AMPS: 200						
FEEDER: SEE RISER							FEED THRU LUG []						
PANEL TYPE: MLO - NOTE 1							MIN A.I.C.: 10,000		(A)				
CKT	ITEM OR AREA SERVED						O/C PROT	DIST KVA	P	O/C KVA	PROT	ITEM OR AREA SERVED	CKT
1	EXISTING						20/2	0.0	A	0.0	20/1	EXISTING	2
3								0.0	B	0.0	20/1	EXISTING	4
5	EXISTING						20/1	0.0	C	0.0	20/1	EXISTING	6
7	EXISTING						20/1	0.0	A	0.0	20/1	EXISTING	8
9	EXISTING						20/1	0.0	B	0.0	20/1	EXISTING	10
11	EXISTING						20/1	0.0	C	0.0	20/1	EXISTING	12
13	EXISTING						20/1	0.0	A	0.0	20/1	EXISTING	14
15	EXISTING						20/1	0.0	B	0.0	20/1	EXISTING	16
17	EXISTING						20/1	0.0	C	0.0	20/1	EXISTING	18
19	EXISTING						20/1	0.0	A	0.0			20
21	EXISTING						20/1	0.0	B	0.0	30/2	EXISTING	22
23	EXISTING						30/2	0.0	C	0.0	20/1	EXISTING	24
25								0.0	A	0.0	20/1	EXISTING	26
27	EXISTING						15/1	0.0	B	0.0		SPACE	28
29	SPACE							0.0	C	0.0		SPACE	30
31	SPACE							0.0	A	0.0		SPACE	32
33	SPACE							0.0	B	0.0		SPACE	34
35	SPACE							0.0	C	0.0		SPACE	36
37	SPACE							0.0	A	0.0		SPACE	38
39	SPACE							0.0	B	0.0		SPACE	40
41	SPACE							0.0	C	0.0		SPACE	42
TOTAL CONNECTED LOAD (KVA)							0.0						
TOTAL DEMAND LOAD (KVA)							0.0						NOTES:
FEEDER AMPERES DEMAND							0.0						1. GROUNDING WILL BE AT METER BREAKER.